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|------------------------|---------------|-------------------------|------------------------------|----------------------------------|-----------------|
| Form 1449A Modified by |               | Application Number      |                              | 09/715,532                       |                 |
|                        |               | Filing Date             |                              | Nov. 16, 2000                    |                 |
|                        |               | First Named Inventor    |                              | Brad A. Armstrong                |                 |
|                        |               | Art Unit                |                              | 2675                             |                 |
|                        |               | Examiner Name           |                              | M. Moyer (Previously)            |                 |
|                        |               | Applicant's File Number |                              | F30                              |                 |
|                        |               |                         |                              |                                  |                 |
|                        |               |                         |                              |                                  |                 |
| <b>Examiner</b>        | <b>US</b>     | <b>Publication</b>      | <b>Patentee or Applicant</b> | <b>Relevant Information</b>      | <b>US Class</b> |
| <b>Initials</b>        | <b>Patent</b> | <b>Date</b>             | <b>Name</b>                  |                                  |                 |
|                        | <b>Number</b> |                         |                              |                                  |                 |
| CIN                    | 5367631       | 11/22/1994              | LEVY                         | Footnote 115 -- Special Interest | 395/162         |
|                        | 5392337       | 2/21/1995               | BAALS                        | Footnote 116 -- Special Interest | 379/457         |
|                        | 5640152       | 6/17/1997               | COPPER                       | Cited for related Interest       | 340/825         |
|                        | 4323888       | 4/6/1982                | COLE                         | Footnote 117 -- Special Interest | 341/34          |
|                        | 5485171       | 1/16/1996               | COPPER ET AL                 | Cited for related Interest       | 345/160         |
|                        | 5714983       | 2/3/1998                | SACKS                        | Cited for related Interest       | 345/168         |
|                        | 5258748       | 11/2/1993               | JONES                        | Cited for related Interest       | 345/172         |
|                        | 6239790       | 5/29/2001               | MARTINELLI ET AL             | Cited for related Interest       | 345/174         |
|                        | 5841078       | 11/24/1998              | MILLER ET AL                 | Cited for related Interest       | 178             |
|                        | 5648642       | 7/15/1997               | MILLER ET AL                 | Cited for related Interest       | 178             |
|                        | 6239389       | 5/29/2001               | ALLEN ET AL                  | Cited for related Interest       | 178             |
|                        | 5495077       | 2/27/1996               | MILLER ET AL                 | Cited for related Interest       | 178             |
|                        | 5543588       | 8/6/1996                | BISSET ET AL                 | Cited for related Interest       | 178             |
|                        | 5861583       | 1/19/1999               | SCHEDIWY ET AL               | Cited for related Interest       | 178             |
|                        | 5880411       | 3/9/1999                | GILLESPIE ET AL              | Cited for related Interest       | 178             |
|                        | 5942733       | 8/24/1999               | ALLEN ET AL                  | Cited for related Interest       | 178             |
|                        | 5543591       | 8/6/1996                | GILLESPIE ET AL              | Cited for related Interest       | 178             |
|                        | 6028271       | 2/22/2000               | GILLESPIE ET AL              | Cited for related Interest       | 178             |
|                        | 5488204       | 1/30/1996               | MEAD ET AL                   | Cited for related Interest       | 178             |
|                        | 5374787       | 12/20/1994              | MILLER ET AL                 | Cited for related Interest       | 178             |
|                        | 5914465       | 6/22/1999               | ALLEN ET AL                  | Cited for related Interest       | 178             |
|                        | 5543590       | 8/6/1996                | GILLESPIE ET AL              | Cited for related Interest       | 178             |

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| Examiner<br>Signature | CHANH NGUYEN | Date<br>Considered | 11/10/04 |
|-----------------------|--------------|--------------------|----------|

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| Examiner<br>Signature | CHAN H NGUYEN | Date<br>Considered | 11/10/04 |
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|----------------------|------------------------|-------------------------|-------------------------------|----------------------------------|----------|
| Form 1449A Modified  |                        | Application Number      |                               | 09/715,532                       |          |
|                      |                        | Filing Date             |                               | Nov. 16, 2000                    |          |
|                      |                        | First Named Inventor    |                               | Brad A. Armstrong                |          |
|                      |                        | Art Unit                |                               | 2675                             |          |
|                      |                        | Examiner Name           |                               | M. Moyer (Previously)            |          |
|                      |                        | Applicant's File Number |                               | F30                              |          |
|                      |                        |                         |                               | Technology Center 2600           |          |
| Examiner<br>Initials | US<br>Patent<br>Number | Publication<br>Date     | Patentee or Applicant<br>Name | Relevant Information             | US Class |
| CMN                  | 5349370                | 9/20/1994               | KATAYAMA ET AL                | Cited for related Interest       | 345/159  |
|                      | 5049079                | 9/17/1991               | FURTADO ET AL                 | Footnote 100 -- Special Interest | 434/253  |
|                      | 5687331                | 11/11/1997              | VOLK ET AL                    | Cited for related Interest       | 395/327  |
|                      | 5542039                | 7/30/1996               | BRINSON ET AL                 | Footnote 98 -- Special Interest  | 345/800  |
|                      | 4850591                | 7/25/1989               | CAPCON CO.                    | Cited for related Interest       | 273/85   |
|                      | 6217444                | 4/17/2001               | KONAMI CO.                    | Cited for related Interest       | 463/3    |
|                      | 6007423                | 12/28/1999              | NAKAMURA                      | Cited for related Interest       | 463/6    |
|                      | 5184120                | 2/2/1993                | MOTOROLA, INC.                | Cited for related Interest       | 340/870  |
|                      | 5555894                | 9/17/1996               | MATSUSHITA ELE.               | Cited for related Interest       | 600/595  |
|                      | 5673066                | 9/30/1997               | TODA ET AL                    | Cited for related Interest       | 345/157  |
|                      | 5853324                | 12/29/1998              | KAMI ET AL                    | Footnote 99 -- Special Interest  | 462/2    |
|                      | 6146278                | 11/14/2000              | KOBAYASHI                     | Cited for related Interest       | 463/53   |
|                      | 6031516                | 2/29/2000               | LEIPER                        | Cited for related Interest       | 345/629  |
|                      | 6041068                | 3/21/2000               | ROSENGREN ET AL               | Footnote 101 -- Special Interest | 370/538  |
|                      | 5358259                | 10/25/1994              | BEST                          | Footnote 106 -- Special Interest | 273/434  |
|                      | 6147674                | 11/14/2000              | ROSENBERG ETAL                | Cited for related Interest       | 345/157  |
|                      | 6225976                | 5/1/2001                | YATES ET AL                   | Cited for related Interest       | 345/156  |
|                      | 6322448                | 11/27/2001              | KAKU ET AL                    | Footnote 103 -- Special Interest | 463/32   |
|                      | 6414996                | 7/2/2002                | OWEN ET AL                    | Footnote 105 -- Special Interest | 375/240  |
|                      | 6400353                | 6/4/2002                | IKAHARA ET AL                 | Footnote 104 -- Special Interest | 345/157  |
|                      | 4713007                | 12/15/1987              | ALBAN                         | Footnote 102 -- Special Interest | 463/37   |
|                      | 6155926                | 12/5/2000               | MIYAMOTO ET AL                | Footnote 109 -- Special Interest | 463/32   |
|                      | 6028531                | 2/22/2000               | WANDERLICH                    | Footnote 110 -- Special Interest | 340      |
|                      | 5999168                | 12/7/1999               | ROSENBERG ETAL                | Footnote 111 -- Special Interest | 345      |
|                      | 5808540                | 9/15/1998               | WHEELER ETAL                  | Cited for related Interest       | 338      |
|                      | 5619180                | 4/8/1997                | MASSIMINO ETAL                | Cited for related Interest       | 340      |

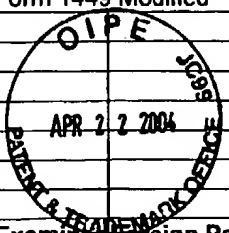
Examiner  
Signature

CHANH NGUYEN

Date  
Considered

01/10/04

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| Form 1449 Modified  |                             | Application Number      |                            | 09/715,532                       |
|---|-----------------------------|-------------------------|----------------------------|----------------------------------|
|   |                             | Filing Date             |                            | Nov. 16, 2000                    |
|   |                             | First Named Inventor    |                            | Brad A. Armstrong                |
|   |                             | Art Unit                |                            | 2675                             |
|   |                             | Examiner Name           |                            | M. Moyer (Previously)            |
|   |                             | Applicant's File Number |                            | F30                              |
|  |                             |                         |                            |                                  |
| Examiner Initials   | Foreign Patent Document No. | Publication Date        | Inventor or Applicant Name | Relevant Information             |
|   |                             | mm-dd-yyyy              |                            |                                  |
| cm  | EP0302158                   | 11-13-1987              | CAPCOM CO. LTD             | Cited for related Interest       |
|   | EP0830881                   | 08-07-1998              | KONAMI CO. LTD             | Cited for related Interest       |
|   | EP0626634                   | 11-30-1994              | MATSUSHITA ELEC.           | Cited for related Interest       |
|   | EP0403054                   | 12-19-1990              | QUANTAL LTD.               | Cited for related Interest       |
|   | JP11009837                  | 04-30-1999              | TAITO CORP.                | Cited for related Interest       |
|   | EP0952555                   | 10-27-1999              | SAIKAWA ET AL              | Cited for related Interest       |
|   | EP0852961                   | 07-15-1998              | KONAMI CO. LTD             | Cited for related Interest       |
|   | WO0152042                   | 07-19-2001              | SONY COMP. ENTER.          | Cited for related Interest       |
|   | JP07-051467                 | 02-28-1995              | MITSUNORI ETAL             | Footnote 112 -- Special Interest |
|   | TW288636                    | 10-11-1996              | PRIMAX ELECTRONIC          | Cited for related Interest       |
|   | TW369431                    | 09-11-1999              | SONY COMPUTER ENT.         | Cited for related Interest       |
|   | JP10-258181                 | 09-29-1999              | ALPS ELECTRONIC CO.        | Cited for related Interest       |
|   | JP-B-H1-40545               | 01/1999                 |                            | Footnote 113 -- Special Interest |

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|---|--|----------------------------------|--|--|--|--|--|
| TRADEMARK OF<br>Application Number: 09/715,532<br>Filing Date: Nov. 16, 2000<br>First Named Unit: Brad A. Armstrong<br>Group Art Unit: 2675<br>Examiner's Name: M. Moyer (Previously)<br>Applicant File Number: F30 |  |                                  |  |  |  |  |  |
| EXAMINER<br>INITIALS  | <u>NON PATENT</u><br><u>LITERATURE</u><br><u>DOCUMENTS AND</u><br><u>OTHERS</u><br><u>REFERENCES</u>   |                                  |  |  |  |  |  |
| cm  | IBM TECHNICAL<br>DISCLOSURE<br>BULLETIN, vol. 21, no.<br>9, Feb. 1, 1979, pages<br>3845-3846, Anonymous<br>author, Title: "Keyboard<br>Device For Upper And<br>Lower Case Keying<br>Without Shifting". The<br>Present Applicant could<br>not locate a copy of this<br>IBM disclosure but lists<br>the data because it was<br>cited as an "X"<br>reference in a European<br>Patent Office Search<br>report on a related<br>invention filed for by<br>another Applicant. | Cited for<br>related<br>interest |  |  |  |  |  |
| cm  | Jim Boyce et al, Inside<br>Window 3.11, New<br>Riders Publishing,<br>Platinum Edition, Page<br>87-89   | Cited for<br>related<br>interest |  |  |  |  |  |

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|-----------------------|--------------|--------------------|----------|
| Examiner<br>Signature | CHANH NGUYEN | Date<br>Considered | 11/10/04 |
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